

# **BARBECUE GRILL WITH AN ADJUSTABLE GRID**

## **BACKGROUND OF THE INVENTION**

### **1. Field of the Invention**

The present invention relates to a barbecue grill, and more particularly to a barbecue grill with a grid adjustable in height and moveable to make the barbecue grill versatile and convenient in use.

### **2. Description of Related Art**

A conventional barbecue grill substantially comprises a stand and a body supported on the stand to roast or toast food. In use, a heat generator, such as gas stove or charcoal fire is mounted on the body for generating heat. A grid is separately mounted on the body to support food to be roasted or toasted by the heat generated by the heat generator.

However, the grid on the conventional barbecue grill is not adjustable and not moveable, the grid must be removed away from the body is necessary for adding charcoal into the body so that the use of the conventional barbecue grill is inconvenient. In addition, the user must pick the roasted food from the grid above the heat generator at a high temperature condition, so the user is easily burned.

To overcome the shortcomings, the present invention tends to provide a barbecue grill with an adjustable grid to mitigate or obviate the aforementioned problems.

## **SUMMARY OF THE INVENTION**

The main objective of the invention is to provide a barbecue grill that has an adjustable grid and is convenient and versatile in use. The barbecue grill has a

1 stand, a body, a grid and an adjusting device. The body is attached to the top of  
2 the stand. The grid is adjustably mounted on the body with the adjusting device.  
3 The adjusting device has a shaft and a positioning device. The shaft is moveably  
4 extendable through the body and is rotatably connected to the grid. The  
5 positioning device is mounted between the body and the grid and is connected to  
6 the shaft to hold the shaft at a desired position. With such an arrangement, the  
7 grid can be rotated away from the body when the user wants to add charcoal into  
8 the body or pick the roasted food from the grid. Thus, the use of the barbecue  
9 grill is convenient and versatile.

10 Other objects, advantages and novel features of the invention will  
11 become more apparent from the following detailed description when taken in  
12 conjunction with the accompanying drawings.

### 13 BRIEF DESCRIPTION OF THE DRAWINGS

14 Fig. 1 is a perspective view of a barbecue grill in accordance with the  
15 present invention;

16 Fig. 2 is an exploded perspective view of the adjusting device of the  
17 barbecue grill in Fig. 1;

18 Fig. 3 is an operational side plan view of the barbecue grill in Fig. 1  
19 showing that the grid is adjusted in height; and

20 Fig. 4 is an operational perspective view of the barbecue grill in Fig. 1  
21 showing that the grid is rotated away from the body.

### 22 DETAILED DESCRIPTION OF PREFERRED EMBODIMENT

23 With reference to Figs. 1 and 2, a barbecue grill in accordance with the  
24 present invention comprises a stand (10), a body (12), a grid (14) and an

1     adjusting device (15). The stand (10) has a top. The body (12) is attached to and  
2     supported on the top of the stand (10). The structures of the stand (10) and the  
3     body (12) can be same as conventional ones and are not further described.

4             The grid (14) is adjustably mounted on the body (12) with the adjusting  
5     device (15). The adjusting device (15) comprises a shaft (16) and a positioning  
6     device (18). The shaft (16) moveably extends through the body (12) and is  
7     rotatably connected to the grid (14). To rotatably connect the shaft (16) to the  
8     grid (14), a tube (19) is securely mounted on the grip (14) and has a bottom  
9     opening. The shaft (16) has a top extending into the bottom opening of the tube  
10    (19) and an annular groove (162) defined near the top. A holding screw (192) is  
11    screwed into the tube (19) and has a free end extending into the groove (162) in  
12    the shaft (16) to rotatably hold the shaft (16) in the tube (19). With the  
13    engagement between free end of the holding screw (192) and the groove (162) in  
14    the shaft (16), the grid (14) can rotate relative to the shaft (16). In addition, a  
15    handle (20) is mounted on the tube (19) for conveniently rotating the grid (14)  
16    relative to the shaft (16).

17            The positioning device (18) is mounted between the body (12) and the  
18    grid (14) and connected to the shaft (16) to hold the shaft (16) at a desired  
19    position. The positioning device (18) comprises a tubular member (182) and a  
20    positioning screw (184). The tubular member (18) is formed on the body (12)  
21    and has a through hole extending through the tubular member (18) for the shaft  
22    (16) extending through the through hole. The positioning screw (184) is screwed  
23    into the tubular member (182) and has a free end abutting against the shaft (16)  
24    to hold the shaft (16) in place. With the abutment between the free end of the

1 positioning screw (184) and the shaft (16), the shaft (16) can be positioned at any  
2 desired position so that the grid (14) can also be held at any desired position.

3 With such a barbecue grill, with further reference to Fig. 3, the height of  
4 the grid (14) relative to the body (12) can be adjusted by means of releasing the  
5 positioning screw (184) and moving the shaft (16) along the tubular member  
6 (182). With further reference to Fig.4, the grid (14) can be rotated relative to the  
7 shaft (16) and away from the body (12), such that the user can add charcoal into  
8 the body (12) conveniently. In addition, the user will not be burned when the user  
9 picks the roasted food from the removed grid (14), such that the use of the  
10 barbecue grill is convenient and versatile.

11 Even though numerous characteristics and advantages of the present  
12 invention have been set forth in the foregoing description, together with details  
13 of the structure and function of the invention, the disclosure is illustrative only,  
14 and changes may be made in detail, especially in matters of shape, size, and  
15 arrangement of parts within the principles of the invention to the full extent  
16 indicated by the broad general meaning of the terms in which the appended  
17 claims are expressed.